THE WORK THAT HAS BEEN DONE.

toes.

18 - Verious methods of planting potatoes in trenches, shallow and otherwise.

19 - Distances of planting potatoes, thirty-six distances being used.

20 - Various methods of cultivating potatoes and of using seed potatoes.

21 - Various times of planting and harvesting rotatoes. The Objects and Purposes of the Intstitutehis Origin and Perpetuation-What May be Accomplished.

Mr. J. W. Sanborn, the director of the egoloultural college and experiment ofton, has issued a next little bulletin, in men he says there seems to be a very general and decisive manifestation of in terest on the part of the citizens of Utah in the above institution, and for that reason to cheerfully lays before the public a gencral statement of its organization and its proposed work.

HISTORIC SUMMARY.

The demand for agricultural experiment stituens is the direct outgrowth of the development of the natural sciences, which have shown the greatfruth that agriculture is breasily founded on the laws of nature. No other industry or profession is so mently uncharged in law.

Sign of the institute sciences, which have shown the greattruth that agriculture is broadly founded on the laws of nature. No other industry or profession is so deeply anchored in law, and none is so compact in its ramifications.

From the opening of this century until 1810, able men in moments spared from the pressure of other investigations, devoted their genius to researches in the fascinating field of science in its application to agriculture. About 1840, Laws & Gilbert in England and Boussingault in France, began systematic researches in agriculture, Their brilliant mork coupled with the more brilliant inductions and deductions of Liebig led to the organization of the first cofficial experiment station at Mockern, Germany, in 1851. It is said that Germany now has 123 such stations. Connecticut in 1834 organized the first experiment station in this country. The example was initiated by other states until their value was so far demonstrated that the nation took up the movement and gave it a national character by an act passed by Congress, March 2, 1887.

This act located an experiment station in connection with the agricultural college of each state or wherever such a college of each state of the relations.

All of the above rotation.

There years' rotation.

All of the above rotation.

All of the above rotation start the series, so that there years' rotation.

All

This act located an experiment station in connection with the agricultural college of each state or wherever such a college was located and where a state desired such a station.

These stations were organized with a gift of \$15,000 for cach year thereafter.

The Utah Experiment station was founded by an act of the territorial legiolature of 1888. It was not actually organized for work until near the opening of 1890, when a director was appointed. By virtue of this fact Congress has given to it but \$10,000 for the present year. This sum has not as yet, June 15th, been received.

FURPORES OF THE STATIONS.

PURPOSES OF THE STATIONS.

Congress defined in detail the object of these stations. In brief, they are for research in any subject within the broad domain of agricultural art and science that will be of economical value to farmers, and through them of value to the consumers. The stations are not or checkly making the form of pears trees.
4-It has growing twenty-five varieties The stations are not or should not be for the purpose, as some seem to believe they are, of compilation and dissemination of present literature. Newspayers and farm organizations are ample mediums for this purpose. By rod, measure and scale in all the unverified fields of agricultural thought (which is practically the whole field) exact data are to be secured in order to supplant conjecture by certainty, the rule of thumb process by the rugh of law. Counties billions of farmers have pursued their industry previous to the middle age of the present generation, and left behind them no settled laws that any group of farmers no settled laws that any group of farmers.

The chemical department has not as yet The stations are not or should not be for present generation, and left behind them no settled saws that any group of formers to that date could have been found to be in accord upon, notwithstanding the fact that there is not a single operation on the farm that does not involve some mathematical mechanical, physical or natural haw—laws capable of solution and fuller and of more importance to humanity than have in any other domain of life.

These stations, existing for investigation and more primarily as teaching adjuncts of college chass rooms, are to sacreally devote their funds to this purpose of recearch.

The first period of organization absorbs

College chas rooms, are to secretal; devote their funds to this purpose of restarch.

The work of the utal station.

At the opening of the past spring, it had convered with sagebrush, and the hope of an appropriation from Congress. The ground has been plowed, cleared of bushes, and is mostly cleared of rocks, is fenced and has fine buildings under contract—five new own with supportant the policy of the many fine buildings under contract—five new own word.

One is a bunk bare, 62 fect square and is fine buildings under contract—five new such and the station will cover all the station, but house, engine house and wagon sized. All of the work is to be done in this hard from a commen centre. Its crops go in by power and are taken only by gravity. It has a fine laboratory, building for officers, for chemical research and for station work.

It will have the use of a new and model farm and dairy house, distinguished, it is believed, by its conveniences for household and dairy work. Two new laborers outledges are someocoed with the station.

The chemical department has a very complete cutifit, while a round of appliances for form and borriedularal experimentation have been collected.

This work has been nided by a territorial appropriation for buildings, farm to its and collected.

This work has been nided by a territorial appropriation for buildings, farm to its and collected.

The chemical department has a very complete cutifit, while a round of appliances for farm and burileultural experimentation have been collected.

This work has been nided by a territorial appropriation for buildings, farm to its and the properties of the whole country will be be appropriation of buildings, farm to its and the properties of the whole field.

The chemical department has a very complete outfit, while a round of appliances for farm and to refer the proper

This work has been nided by a territorial appropriation for buildings, farm to its and stock. It is proper to say that the territory has manifested a very liberal spirit to wards the station and college, a combination of which will soon place both of them, expenditures being equally wise, among the best of the sountry. The spirit of the law has been the guide of the trustees, thereby opening a fair field for the investingators and teachurs associated with the college and station.

EXPERIMENT WORK INAUGURATED. Eighty five acres of the farm are now covered with crops. Forty acres are now and economic farming. Regarding these acres as experimental acres, for such a purpose they were intended to serve, the farm is divided into the following lines of inquiry:

1.—Fifteen acres are sown to eight varieties of grasses for a pasture of mixed.

indulty:

1—Fifteen acres are sown to eight varieties of grasses for a pasture of mixed grasses, in order to test the value of mixed grasses, in order to test the value of mixed grasses, in order to test the value of mixed grasses, in order to test the value of mixed grasses, in order to test the value of mixed grasses, in order to the value of grasses of grasses are seen to be grazed by lots of similar unimals in each and growth of animals on each are to be weighed.

3. Twenty-four varieties of grasses and clovers are sown on plats for test of varieties.

4. Varieties of cats, wheat, cora and barbey are being tested.

5. A line of the most promising varieties of forage crops are being tested.

6. The summ plants—sorghum and sugar of the summ plants—sorghum and sugar of the world the street and make broathing much easier. No family can be wittent it of once they know its value. Try it. Price 50 cents.

13. The First Step.

5-A line of the most promising varieties of forage crops are being tested.
6-The sugar plants-sorghum and sugar beets-are being tested with reference to the sugar product. A sugar beet factory is likely to be creeted in the territory.

hence this logury.
7-Sixty-three plats are devoted to irri-

The First Step.

The Fi

d. Varying amounts at a given time, but total amount for the season remaining the e. Sub irrigation versus surface firiga-

f. Length of scalor that irrigation can be continued successfully.
g. Resulton of irrigation to soil fertility.
h. The amount of water percolating through soil under varying applications.
i. Inducate of fall irrigation.
j. Manures in their relution to irrigation.
k. Mulching in connection with irrigation.

Lateral movement of water in the soil Merchant Tailor.

Test of a part of above questions by the use of vessels

8-Zinc boxes deveted to testing vaporization of water, soils and of the various

French, English, Scotch I Domestic Goods crops.

9—Continuous test of the power of crops to secure nitrogen from the air.

10—Mulching of corn and of potatoes and the relation of a mulch to yield of crop, to 55 W. South Temple Street, Op. Temple Block

tility.

11—Mulch of earth to above relations.
12—Drills versus checknowed corn.
13—Hilling versus flat culture of corn.
14—No tillege, shallow tillage and deep tillage for corn and postates and the relations to soil moisture, root growth and crop yield.
15—No harrowing of the ground, and little or much harrowing before planting.
16—No plowing, shallow plowing and deep plowing for wheat and potatoes.
17—Various methods of tilting for potatoes.

26-Distance of drilling wheat.

32-Soiling cattle

27—Varying times of harvesting wheat. 28—Select wheat versus average seed and poor seed. 29—Time of plowing and style of furrow. 39—Depth of sowing wheat. 31—Minure trials, utility, method of ap-

33-Green versus dry food for cattle. 34-Green mauring. 35-Rotations.

of apple trees.

8—It has growing twenty-five varieties

of plum trees.
5-It has growing forty varieties of

6-It has growing twenty-five varieties

The first period of organization absorbs funds rapidly. When the organization is

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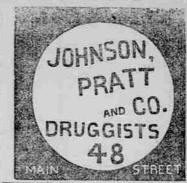
verting potatoes.

22 - Various amounts of seed wheat.

23 - Varying times of sowing wheat.

24 - Broadcasting versus drilling wheat.

25 - Roeing wheat, rolling and not rolling ESTIMATES GIVEN PROMPTLY.



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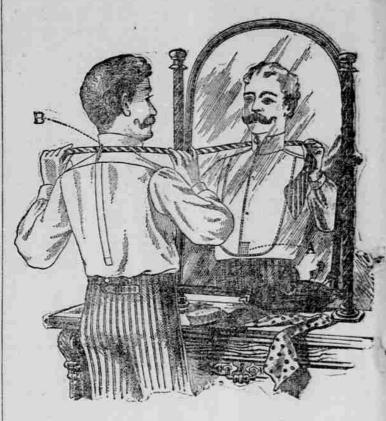
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